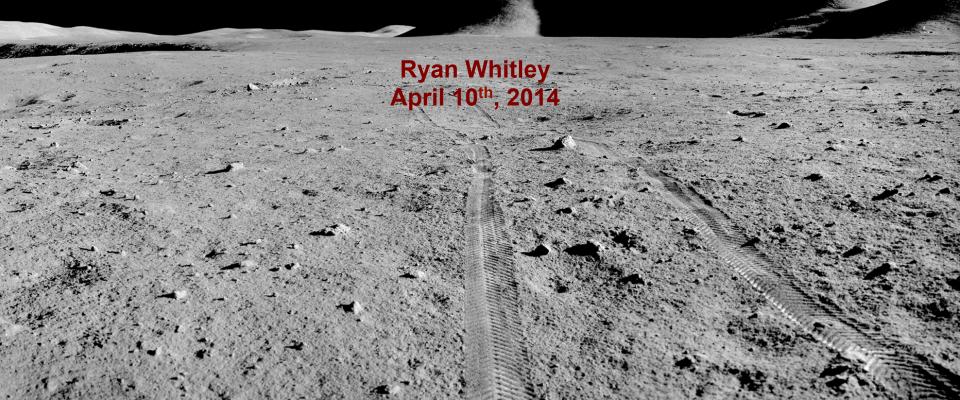
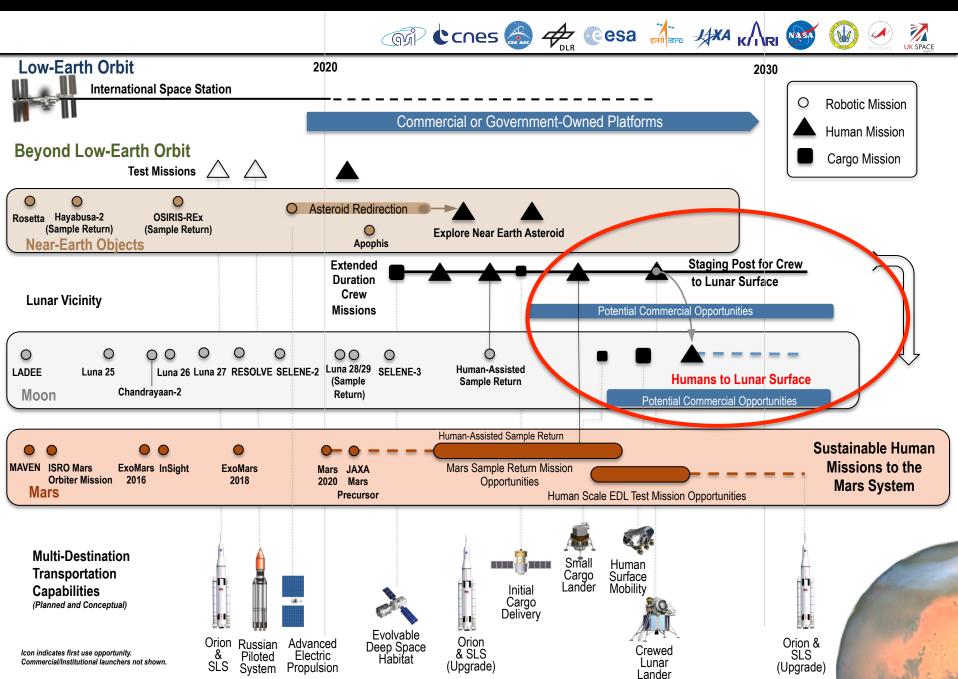
# Overview of ISECG Work: Expanding the Definition of the Lunar Exploration Scenario



### **ISECG Mission Scenario**



## Revisiting Approach to Lunar Exploration Scenario

#### Two parts to lunar surface scenario expansion activity:

- 1 Update lunar lander transportation architecture
- 2 Update surface strategy using reference surface Global Point of Departure (GPoD) architecture

#### Key Considerations

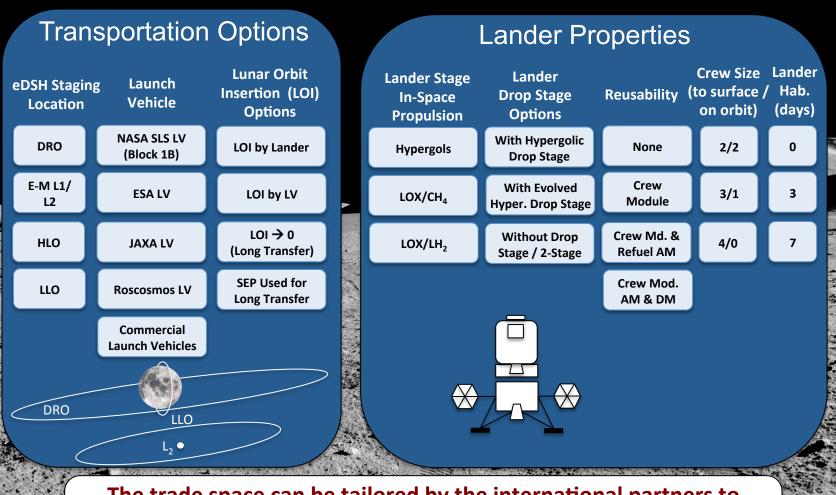
Human transportation options tend to drive overall cost of destination exploration. Multiple architectural mission options are being evaluated to characterize and score based on key Figures of Merit such as:

- Cost
- Performance (Capabilities and Mission Objectives Satisfaction)
- Technology Development
- Extensibility
- Mission Risk

Updated approach to surface activities will be informed and developed based on down select of most attractive transportation architecture options. More to come in later GER workshops in Japan (July) and Europe (Oct) this year.

## **Lunar Surface Access Trade Space**

The lunar surface trade space is divided between transportation options and lander properties within the context of utilizing an evolvable deep space habitat as a staging post.



The trade space can be tailored by the international partners to meet a variety of core objectives and used to identify scenarios from which a viable human lunar campaign is achievable.

# **Example Architecture for Extensibility Lander**

**LLO Staging Location** 

